

### **ABSTRACT OF THE DISCLOSURE**

Systems and methods for switching to a back-up power supply are provided. One such system includes a threshold detector circuit; a first switching circuit for enabling access to a first power source, the first switching circuit comprising at least a first transistor; and a second switching circuit for enabling access to a second power source, the second switching circuit comprising at least a second transistor; wherein the threshold detector is configured to cause the second switching circuit to enable access to the second power supply responsive to a voltage provided by the first power supply dropping below a predetermined threshold.

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